Shenzhen Huatongwei International Inspection Co., Ltd.



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TEST REPORT

Report Reference No......: TRE1805016606 R/C....: 83276

FCC ID.....: QRP-AZUMIKA5QP

Address...... Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,

Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama

Manufacturer...... AZUMI HK LTD

Address...... FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING

16-26 KWAI TAK STREET KWAI CHUNG, HK

Test item description: Mobile Phone

Trade Mark AZUMI

Model/Type reference...... KIREI A5Q PLUS

Listed Model(s) -

Standard: 47 CFR FCC Part 15 Subpart B

Date of receipt of test sample............ May.18,2018

Date of testing...... May.19,2018- May.31,2018

Date of issue...... Jun.01,2018

Result...... Pass

Compiled by

(position+printedname+signature)...: File administrators Candy Liu

Supervised by

(position+printed name+signature)..: Project Engineer Aaron Fang

Approved by

(position+printed name+signature)..: RF Manager Hans Hu

Candy Liu,

Aaron.Fang

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Address....... 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao,

Gongming, Shenzhen, China

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The test report merely corresponds to the test sample.

Report No.: TRE1805016606 Page: 2 of 18 Issued: 2018-06-01

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report version information	3
<u>2.</u>	TEST DESCRIPTION	4
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<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	EUT operation mode	5
3.4.	Configuration of Tested System	5
3.5.	Support unit used in test configuration	6
<u>4.</u>	TEST ENVIRONMENT	7
4.1.	Address of the test laboratory	7
4 .1. 4.2.	Test Facility	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
4.5.	Equipments Used during the Test	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	10
5.1.	Our directed Emilianiana Took	40
5.1. 5.2.	Conducted Emissions Test Radiated Emissions Test	10 13
J.Z.	Naviated Elilipololio 165t	13
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	17
7	EXTERNAL AND INTERNAL PHOTOS OF THE FLIT	18
	EATERINAL AND INTERNAL FOUTUS OF TOE FUT	10

Report No.: TRE1805016606 Page: 3 of 18 Issued: 2018-06-01

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2014 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version information

Revision No.	Date of issue	Description
N/A	Jun.01,2018	Original

Report No.: TRE1805016606 Page: 4 of 18 Issued: 2018-06-01

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Tony Duan
Radiated Emissions	15.109(a)	PASS	Michael Jie

Note: The measurement uncertainty is not included in the test result.

Report No.: TRE1805016606 Page: 5 of 18 Issued: 2018-06-01

3. **SUMMARY**

3.1. Client Information

Applicant:	Azumi S.A
Address:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama
Manufacturer:	AZUMI HK LTD
A -1-1	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING
Address:	16-26 KWAI TAK STREET KWAI CHUNG,HK

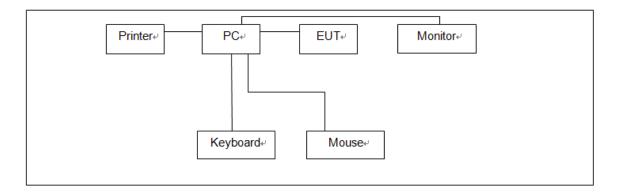
3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	AZUMI
Model No.:	KIREI A5Q PLUS
Listed Model(s)	-
Power supply:	DC 3.7V
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.2A
Auapter information.	Output: 5Vd.c.,0.7A

3.3. EUT operation mode

Test mode	Describe
Data exchange mode	Keep the EUT in data exchange with PC status.
Video playing mode	Keep the EUT in video playing status.
Camera record mode	Keep the EUT in camera record status.

3.4. Configuration of Tested System



Report No.: TRE1805016606 Page: 6 of 18 Issued: 2018-06-01

3.5. Support unit used in test configuration

	or capport and document configuration.					
Item	Equipment	Manufacturer	Model No.	FCC ID / FCC DoC	Data Cable	Power Cord
1	PC	DELL	OptiPlex 3020 MT	FCC DoC	N/A	Unshielded 1.8m
2	Monitor	DELL	E1912Hf	FCC DoC	N/A	Unshielded 1.8m
3	Keyboard	DELL	SK8115	FCC DoC	Unshielded, 1.5m	N/A
4	Mouse	DELL	MS111-T	FCC DoC	Unshielded, 1.5m	N/A
5	Printer	EPSON	L101	FCC DoC	N/A	Unshielded 1.8m

Report No.: TRE1805016606 Page: 7 of 18 Issued: 2018-06-01

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.
Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

Report No.: TRE1805016606 Page: 8 of 18 Issued: 2018-06-01

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emissions	30~1000MHz	4.24 dB	(1)
Radiated Emissions	1~18GHz	5.16 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: TRE1805016606 Page: 9 of 18 Issued: 2018-06-01

4.5. Equipments Used during the Test

Conduc	Conducted Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018
3	2-Line V- Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018
4	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018
6	Test Software	R&S	ES-K1	N/A	N/A	N/A

Radiat	Radiated Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	Semi- Anechoic Chamber	Albatross projects	SAC-3m-01	C11121	10/16/2016	10/15/2019
2	EMI Test Receiver	R&S	ESCI	100900	11/11/2017	11/10/2018
3	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2020
4	Ultra- Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2020
5	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2020
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170 472	3/27/2017	3/26/2020
7	Pre-amplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018
8	Broadband Pre-amplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018
9	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018
10	RF Connection Cable	HUBER+SUHNE R	RE-7-FL	N/A	11/21/2017	11/20/2018
11	RF Connection Cable	HUBER+SUHNE R	RE-7-FH	N/A	11/21/2017	11/20/2018
12	Test Software	Audix	E3	N/A	N/A	N/A
13	Test Software	R&S	ES-K1	N/A	N/A	N/A
14	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
15	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A

Report No.: TRE1805016606 Page: 10 of 18 Issued: 2018-06-01

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

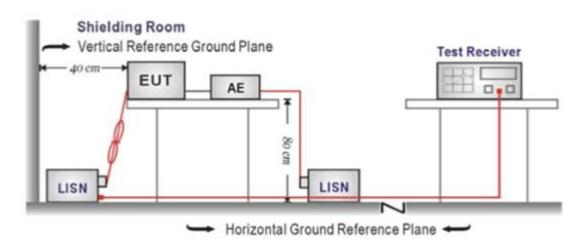
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)		
Frequency range (wiriz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

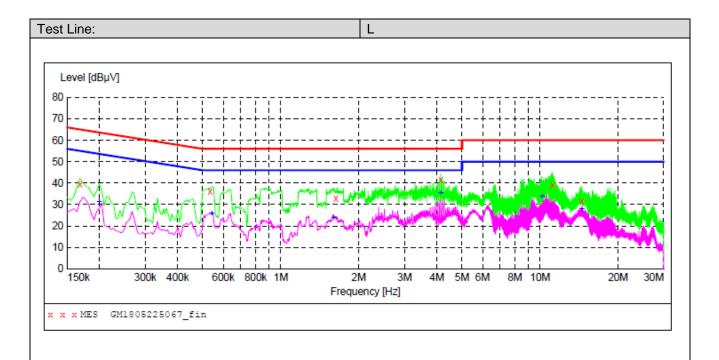
- 1. The EUT was setup according to ANSI C63.4:2014
- 2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

 Report No.: TRE1805016606 Page: 11 of 18 Issued: 2018-06-01



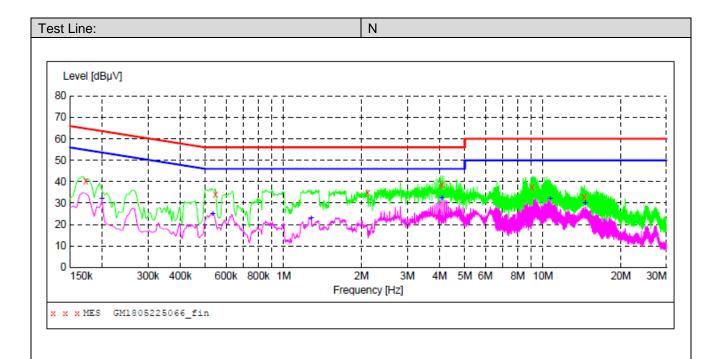
MEASUREMENT RESULT: "GM1805225067_fin"

5/	/22/2018 4:2	5PM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.168000	39.30	10.0	65	25.8	QP	L1	GND
	0.532500	36.00	10.0	56	20.0	QP	L1	GND
	1.630500	32.80	10.1	56	23.2	QP	L1	GND
	4.146000	41.50	10.1	56	14.5	QP	L1	GND
	11.175000	39.10	10.4	60	20.9	QP	L1	GND
	14.500500	31.50	10.5	60	28.5	QP	L1	GND

MEASUREMENT RESULT: "GM1805225067_fin2"

5/22/2018 4: Frequency		Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμ∇	dB			
0.199500	31.30	10.0	54	22.3	AV	L1	GND
0.541500	25.80	10.0	46	20.2	AV	L1	GND
1.594500	23.80	10.1	46	22.2	AV	L1	GND
4.146000	35.40	10.1	46	10.6	AV	L1	GND
10.176000	33.50	10.4	50	16.5	AV	L1	GND
14.505000	27.70	10.5	50	22.3	AV	L1	GND

Report No.: TRE1805016606 Page: 12 of 18 Issued: 2018-06-01



MEASUREMENT RESULT: "GM1805225066_fin"

5/22/2018 4:23PM							
Frequen M	cy Level Hz dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.1725	00 40.40	10.0	65	24.4	QP	N	GND
0.5460	00 34.30	10.0	56	21.7	QP	N	GND
2.1075	00 34.90	10.1	56	21.1	QP	N	GND
4.0830	00 38.50	10.1	56	17.5	QP	N	GND
9.1095	00 37.50	10.4	60	22.5	QP	N	GND
14.4420	00 32.90	10.5	60	27.1	QP	N	GND

MEASUREMENT RESULT: "GM1805225066_fin2"

5/22/2018 4:2	ЗРМ						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500	32.10	10.0	54	21.5	AV	N	GND
0.532500	25.10	10.0	46	20.9	AV	N	GND
1.279500	23.10	10.1	46	22.9	AV	N	GND
4.083000	32.30	10.1	46	13.7	AV	N	GND
10.675500	31.90	10.4	50	18.1	AV	N	GND
14.568000	29.80	10.5	50	20.2	AV	N	GND

Report No.: TRE1805016606 Page: 13 of 18 Issued: 2018-06-01

5.2. Radiated Emissions Test

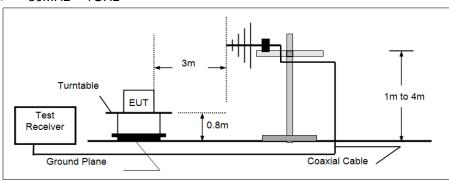
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

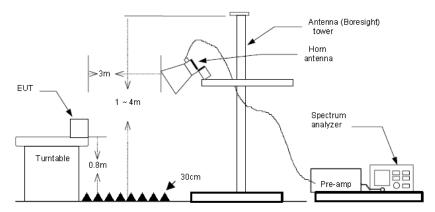
or or it into it i and it outspan i a control						
Frequency	Limit (dBuV/m @3m)	Value				
30MHz-88MHz	40.00	Quasi-peak				
88MHz-216MHz	43.50	Quasi-peak				
216MHz-960MHz	46.00	Quasi-peak				
960MHz-1GHz	54.00	Quasi-peak				
Above 1GHz	54.00	Average				
Above 10112	74.00	Peak				

TEST CONFIGURATION

30MHz ~ 1GHz



Above 1GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.4:2014.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground.
- 3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 4. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
 - RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

Report No.: TRE1805016606 Page: 14 of 18 Issued: 2018-06-01

TEST MODE:

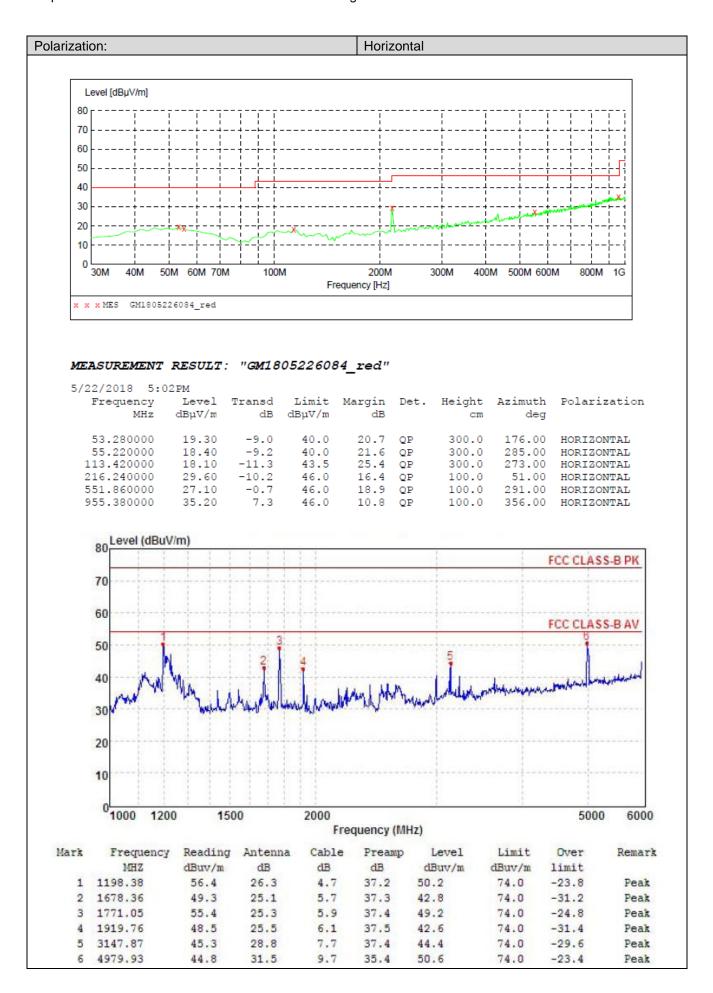
Please refer to the clause 3.3

TEST RESULTS

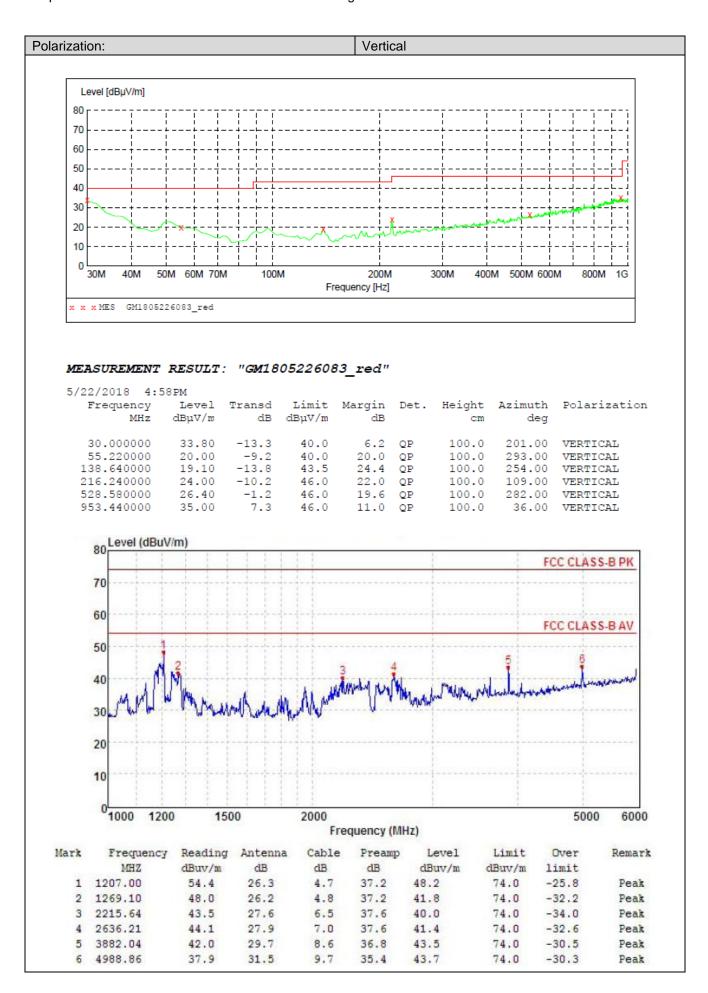
 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

Note: Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

Report No.: TRE1805016606 Page: 15 of 18 Issued: 2018-06-01



Report No.: TRE1805016606 Page: 16 of 18 Issued: 2018-06-01



Report No.: TRE1805016606 Page: 17 of 18 Issued: 2018-06-01

6. TEST SETUP PHOTOS OF THE EUT

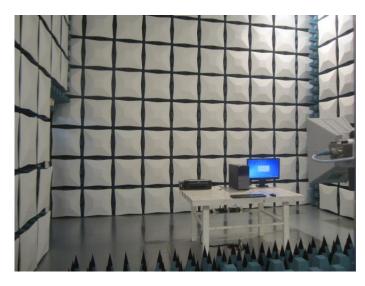
Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



Report No.: TRE1805016606 Page: 18 of 18 Issued: 2018-06-01

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No.: TRE1805016601.

-----End of Report-----